

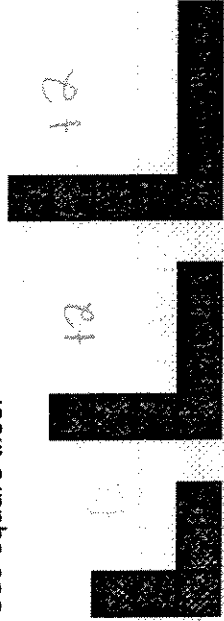
2.3.1: Pattern Practice

Name:
 Date:

For each example below:

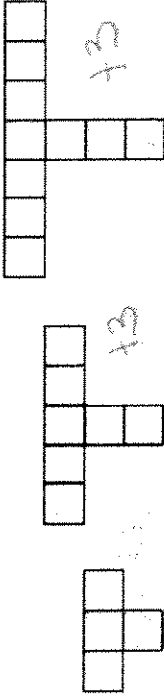
- build the first few terms of the pattern
- write at least two different ways to describe how to build the 20th term
- write at least two different ways to describe how to build the n^{th} term
- determine which patterns are generated by adding, subtracting, multiplying, or dividing by a constant to get the next term

1. Use square tiles:



| Term Number | Number Tiles/ Picks/Cubes | Description |
|-------------|------------------------------|---------------------------------------|
| 1 | 5 | The pattern starts with 5 then adds |
| 2 | 7 | 2 each time to the top and right side |
| 3 | 9 | of the tiles |
| 20 | 43 | |
| n | $2n+3$ | |
| | | |

2. Use square tiles:



| Term Number | Number Tiles/ Picks/Cubes | Description |
|-------------|------------------------------|---------------------------------|
| 1 | 4 | The pattern starts with 4 tiles |
| 2 | 7 | and adds 3 each time to both |
| 3 | 10 | sides and the bottom |
| 20 | 61 | |
| n | $3n+1$ | |
| | | |